

PRODUCT-DETAILS

## OTDC250UF11 OTDC250UF11 PV Disconnect Switch



General Information	
Extended Product Type	OTDC250UF11
Product ID	1SCA158160R1001
EAN	6417019872452
Catalog Description	OTDC250UF11 PV Disconnect Switch
Long Description	A fully optimized two-pole DC switch-disconnector for 1000V utility-scale photovoltaic power plants covering 315-630A current range. The new design offers both a size reduction and an increase in efficiency and performance.  The two-pole 1000V DC Switch helps manufacturers improve system efficiency. Measuring just 150mm wide and 122mm high, the compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters.  Main characteristics for this particular OTDC type: Disconnect single PV circuit, Approved according to UL98B and IEC 60947-1,-3

Circular Value	
ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 59,09 %
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
End of Life Instructions	1SCC301112M0201
Environmental Product Declaration - EPD	1SCC301247D0201
Group Waste to Landfill	Non-hazardous waste is sent to a landfill, where there is no alternative option

Target	available within 100km of a facil
Improved Resource Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared similar product on market or older products from the same li
REACH Declaration	1SCC301240D02
RoHS Information	1SCC301239D0201
Toxic Substances Control Act - TSCA	1SCC301321D02
Eco Transparency	
Environmental Product Declaration - EPD	1SCC301247D02
Ordering	
Minimum Order Quantity	1 pie
Customs Tariff Number	853630
Country of Origin	Finland (l
Popular Downloads	
Data Sheet, Technical Information	1SCC301022C02
Instructions and Manuals	1SCC301099M02 9AKK107492A61
Mechanical Drawings	OTDC250-600UFV11_s OTDC250-600UFV11_i 1SCC307658F00 1SCC307659F00
Wiring Diagram	1SCC301030K02
Environmental Product Declaration - EPD	1SCC301247D02
End of Life Instructions	1SCC301112M02
Dimensions	
Product Frame Size	
Product Net Width	157.5 m 6.2
Product Net Height	211 m 8.3
Product Net Depth / Length	135 m 5.3
Product Net Weight	3.5 7.7
Technical	
Connection Configuration	Single circuit 2a,
Rated Operational Current DC-21B (I <sub>e</sub> )	(1000 V) 315
Rated Operational Current DC-22B	(1000 V) 315
Rated Operational Current DC-PV1	(1000 V) 315
Rated Operational Current	(1000 V) 315
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DC-PV2	
Conventional Free-air Thermal Current (I <sub>th</sub> )	Θ = 40 °C 315 A
Conventional Thermal Current (I <sub>the</sub> )	Fully Enclosed 315 A
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	12 kV
Rated Insulation Voltage (U <sub>i</sub> )	1500 V
Rated Operational Voltage	1000 V
Rated Short-Circuit Making Capacity (I <sub>cm</sub> )	(1000 V DC) 10 kA
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	(1500 V DC) 10 kA for 1 s 10 kA
Protection Type	Circuit breaker
Power Loss	at Rated Operating Conditions per Pole 78 W
Pollution Degree	3
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	11 19 N·m
Shaft Diameter	12 mm 0.47 in
Switches Operating Mechanism	Mechanism Between the Poles 11 (Between the Poles)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Operating Mode	Front Operated
Standards	UL98B and IEC 60947-1, -3
Special Functions	No
Mounting Type	Base mounting
Number of Circuits	1
Number of Poles	2
Degree of Protection	Front IP20
Terminal Type	Lug terminals
Terminal Width	30 mm 1.2 in
Tightening Torque	Cable Lug 30 44 N·m Cable Lug 266 390 lbf·in
Mechanical Durability	10000 cycle
Utilization	Photovoltaic
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B)  Switching of mixed resistive and inductive loads, including moderate overloads (i.e. shunt motors) - occasional actuation (DC-22B)  Switching of single PV string(s) without reverse and overcurrents (DC-PV1)
	Switching of single PV string(s) without reverse and overcurrents (DC-PV1)  Switching of several PV string(s) with reverse and overcurrents (DC-PV2)

Technical UL/CSA	
Maximum Operating Voltage	1000Vdc, UL 98B
Ampere Rating	250A,1000Vdc,UL98B
Short-Circuit Current Rating (SCCR)	Any UL Listed Fuses or Circuit-Breakers 10 kA
Tightening Torque	Cable Lug 30 44 N·m Cable Lug 266 390 lbf·in

Environmental	
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	1SCC301321D0201

Certificates and Declarations	
CCC Certificate	CQC2019010302206498
Declaration of Conformity - CE	1SCC301227D2701
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
REACH Declaration	1SCC301240D0201
UL Certificate	UL certificate OTDC250-1000UF

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	220 mm 8.7 in
Package Level 1 Depth / Length	250 mm 9.8 in
Package Level 1 Height	210 mm 8.3 in
Package Level 1 Gross Weight	3.8 kg 8.3 lb
Package Level 1 EAN	6417019872452

Classifications	
Object Classification Code	Q
ETIM 7	EC000216 - Switch disconnector
ETIM 8	EC000216 - Switch disconnector
ETIM 9	EC000216 - Switch disconnector (low voltage)
UNSPSC	39122233
IDEA Granular Category Code (IGCC)	5293 >> Switch disconnector
eClass	V11.1: 27371403
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Categories

Low Voltage Products and Systems  $\rightarrow$  Switches  $\rightarrow$  DC Switch-Disconnectors







